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FILE COVERS 1907 - 17 Sep 2002 VOL 137 ISS 12
FILE LAST UPDATED: 16 Sep 2002 (20020916/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

CAS roles have been modified effective December 16, 2001. Please check your SDI profiles to see if they need to be revised. For information on CAS roles, enter HELP ROLES at an arrow prompt or use the CAS Roles thesaurus (/RL field) in this file.

=> s octadecyl 3,5-di-ter-butyl-4-hydroxycinnamate

12048 OCTADECYL
1 OCTADECYLS

12049 OCTADECYL
(OCTADECYL OR OCTADECYLS)

5558257 3

5246206 5

389340 DI

3697 DIS

392893 DI

(DI OR DIS)

2288 TER

88 TERS

2366 TER

(TER OR TERS)

189890 BUTYL

27 BUTYLS

189903 BUTYL

(BUTYL OR BUTYLS)

4510914 4

921 HYDROXYCINNAMATE

144 HYDROXYCINNAMATES

990 HYDROXYCINNAMATE

(HYDROXYCINNAMATE OR HYDROXYCINNAMATES)

L1 0 OCTADECYL 3,5-DI-TER-BUTYL-4-HYDROXYCINNAMATE
(OCTADECYL (W) 3 (W) 5 (W) DI (W) TER (W) BUTYL (W) 4 (W) HYDROXYCINNAMATE)

=> s octadecyl (10w) 4-hydroxycinnamate
12048 OCTADECYL
1 OCTADECYLS
12049 OCTADECYL
(OCTADECYL OR OCTADECYLS)
4510914 4
921 HYDROXYCINNAMATE
144 HYDROXYCINNAMATES
990 HYDROXYCINNAMATE
(HYDROXYCINNAMATE OR HYDROXYCINNAMATES)
294 4-HYDROXYCINNAMATE
(4 (W) HYDROXYCINNAMATE)

L2 9 OCTADECYL (10W) 4-HYDROXYCINNAMATE

=> s trisnonylphenol phosphite
1 TRISNONYLPHENOL
28308 PHOSPHITE
9446 PHOSPHITES
31081 PHOSPHITE
(PHOSPHITE OR PHOSPHITES)

L3 0 TRISNONYLPHENOL PHOSPHITE
(TRISNONYLPHENOL (W) PHOSPHITE)

=> s trinonylphenol phosphite
3 TRINONYLPHENOL
1 TRINONYLPHENOLS
4 TRINONYLPHENOL
(TRINONYLPHENOL OR TRINONYLPHENOLS)
28308 PHOSPHITE
9446 PHOSPHITES
31081 PHOSPHITE
(PHOSPHITE OR PHOSPHITES)

L4 1 TRINONYLPHENOL PHOSPHITE
(TRINONYLPHENOL (W) PHOSPHITE)

=> s phosphite
28308 PHOSPHITE
9446 PHOSPHITES

L5 31081 PHOSPHITE
(PHOSPHITE OR PHOSPHITES)

=> s hydroxycinnamate
921 HYDROXYCINNAMATE
144 HYDROXYCINNAMATES
L6 990 HYDROXYCINNAMATE
(HYDROXYCINNAMATE OR HYDROXYCINNAMATES)

=> s 15 and 16
L7 11 L5 AND L6

=> d 17 1-11 ti

L7 ANSWER 1 OF 11 CAPLUS COPYRIGHT 2002 ACS
TI Polyolefin molding compositions for manufacture of calendered films and boards

L7 ANSWER 2 OF 11 CAPLUS COPYRIGHT 2002 ACS
TI Stabilized isocyanate-reactive compound and polyurethane foam obtained therefrom

L7 ANSWER 3 OF 11 CAPLUS COPYRIGHT 2002 ACS
 TI Polyamide-acrylonitrile-butadiene rubber blends with reduced gel and
 antigel agent

L7 ANSWER 4 OF 11 CAPLUS COPYRIGHT 2002 ACS
 TI Preparation of benzoxazoles and analogs as lipoxygenase inhibitors

L7 ANSWER 5 OF 11 CAPLUS COPYRIGHT 2002 ACS
 TI Preparation of monoclinic (.alpha.) crystalline modification of
 2,2',2''-nitrilo[triethyl-tris(3,3',5,5'-tetra-tert-butyl-1,1'-biphenyl-
 2,2'-diyl) ***phosphite***] as an antioxidant and heat stabilizer

L7 ANSWER 6 OF 11 CAPLUS COPYRIGHT 2002 ACS
 TI Preparation of triclinic (.beta.) crystalline modification of
 2,2',2''-nitrilo[triethyl-tris(3,3',5,5'-tetra-tert-butyl-1,1'-biphenyl-
 2,2'-diyl) ***phosphite***] as an antioxidant and heat stabilizer

L7 ANSWER 7 OF 11 CAPLUS COPYRIGHT 2002 ACS
 TI Lubricating oil compositions containing novel combination of stabilizers

L7 ANSWER 8 OF 11 CAPLUS COPYRIGHT 2002 ACS
 TI ***Hydroxycinnamates*** and stabilized polyolefin compositions
 containing them

L7 ANSWER 9 OF 11 CAPLUS COPYRIGHT 2002 ACS
 TI Halogenated ***hydroxycinnamate*** phosphates

L7 ANSWER 10 OF 11 CAPLUS COPYRIGHT 2002 ACS
 TI Chlorinated ***hydroxycinnamate*** phosphates

L7 ANSWER 11 OF 11 CAPLUS COPYRIGHT 2002 ACS
 TI Insecticidal and acaricidal compounds

=> d 17 1-11 all

L7 ANSWER 1 OF 11 CAPLUS COPYRIGHT 2002 ACS
 AN 1999:519574 CAPLUS
 DN 131:158369
 TI Polyolefin molding compositions for manufacture of calendered films and
 boards
 IN Wick, Christian; Pfahler, Gerhard; Lichtblau, Alexander
 PA Clariant G.m.b.H., Germany
 SO Eur. Pat. Appl., 35 pp.
 CODEN: EPXXDW
 DT Patent
 LA German
 IC ICM C08K005-00
 ICS C08L023-02
 CC 37-6 (Plastics Manufacture and Processing)
 FAN.CNT 1

| | PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------|--|------|----------|------------------|----------|
| | ----- | ---- | ----- | ----- | ----- |
| PI | EP 934972 | A2 | 19990811 | EP 1999-101426 | 19990127 |
| | EP 934972 | A3 | 20001108 | | |
| | R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO | | | | |
| | DE 19804910 | A1 | 19990812 | DE 1998-19804910 | 19980207 |
| | US 2002006992 | A1 | 20020117 | US 1999-243226 | 19990203 |
| | TW 418230 | B | 20010111 | TW 1999-88101718 | 19990204 |
| | ZA 9900922 | A | 19990810 | ZA 1999-922 | 19990205 |
| | JP 11279339 | A2 | 19991012 | JP 1999-29149 | 19990205 |
| PRAI | DE 1998-19804910 | A | 19980207 | | |

OS MARPAT 131:158369

AB Polyolefins contg. .gtoreq.1 P- or S-contg., peroxide-decomp. compd. [e.g., tris(2,4-di-tert-butylphenyl) ***phosphite***], .gtoreq.1 phenolic antioxidant, and .gtoreq.1 sterically hindered amine exhibited reduced sticking to the rolls and polymer degrdn. during calendering.

ST polyolefin heat stabilizer synergistic mixt; ***phosphite*** tertiary butylphenyl mixt heat stabilizer polyolefin; hindered amine mixt heat stabilizer polyolefin; phenolic antioxidant synergistic mixt polyolefin; sulfur contg peroxide decomp compd heat stabilizer polyolefin; phosphorus contg peroxide decomp compd heat stabilizer polyolefin

IT Polyamines
Polyamines
RL: MOA (Modifier or additive use); USES (Uses)
(epoxy; polyolefin molding compns. contg. synergistic heat stabilizer mixt. for manuf. of calendered films and boards)

IT Polysiloxanes, uses
RL: MOA (Modifier or additive use); USES (Uses)
(hindered amine group-contg.; polyolefin molding compns. contg. synergistic heat stabilizer mixt. for manuf. of calendered films and boards)

IT Amines, uses
RL: MOA (Modifier or additive use); USES (Uses)
(hindered; polyolefin molding compns. contg. synergistic heat stabilizer mixt. for manuf. of calendered films and boards)

IT Epoxy resins, uses
Epoxy resins, uses
Polyesters, uses
Polyesters, uses
RL: MOA (Modifier or additive use); USES (Uses)
(polyamine-; polyolefin molding compns. contg. synergistic heat stabilizer mixt. for manuf. of calendered films and boards)

IT Polyamines
Polyamines
RL: MOA (Modifier or additive use); USES (Uses)
(polyester-; polyolefin molding compns. contg. synergistic heat stabilizer mixt. for manuf. of calendered films and boards)

IT Antioxidants
Heat stabilizers
Plastic films
(polyolefin molding compns. contg. synergistic heat stabilizer mixt. for manuf. of calendered films and boards)

IT Phenols, uses
Polyamines
RL: MOA (Modifier or additive use); USES (Uses)
(polyolefin molding compns. contg. synergistic heat stabilizer mixt. for manuf. of calendered films and boards)

IT Polyolefins
RL: POF (Polymer in formulation); USES (Uses)
(polyolefin molding compns. contg. synergistic heat stabilizer mixt. for manuf. of calendered films and boards)

IT Molded plastics, processes
RL: PEP (Physical, engineering or chemical process); PROC (Process)
(sheets; polyolefin molding compns. contg. synergistic heat stabilizer mixt. for manuf. of calendered films and boards)

IT 59-02-9, .alpha.-Tocopherol 1709-70-2, 1,3,5-Trimethyl-2,4,6-tris(3,5-di-tert-butyl-4-hydroxybenzyl)benzene 1843-03-4 3806-34-6, Distearyl pentaerythrityldiphosphite 6683-19-8 19277-65-7, Octadecyl 3,5-di-tert-butyl-4- ***hydroxycinnamate*** 26741-53-7, Bis(2,4-di-tert-butylphenyl) pentaerythrityldiphosphite 27676-62-6 31570-04-4, Tris(2,4-di-tert-butylphenyl) ***phosphite*** 32509-66-3 52829-07-9, Bis(2,2,6,6-tetramethylpiperidin-4-yl) sebecate 70198-29-7 71878-19-8 78276-66-1 80410-33-9 86624-80-8 90751-07-8 94274-03-0 105014-05-9 105014-06-0 122586-52-1 124172-53-8

124974-31-8 131290-28-3 154862-43-8 161717-32-4 164391-52-0

164578-16-9 164648-93-5 237081-56-0

RL: MOA (Modifier or additive use); USES (Uses)

(polyolefin molding compns. contg. synergistic heat stabilizer mixt.
for manuf. of calendered films and boards)

IT 9002-88-4, Polyethylene 9003-07-0, Polypropylene 9003-17-2,
Polybutadiene 9003-27-4, Polyisobutylene 9003-28-5, Poly-1-butene
9003-31-0, Polyisoprene 9010-77-9, Acrylic acid-ethylene copolymer
9010-79-1, Ethylene-propylene copolymer 9010-85-9, Isobutylene-isoprene
copolymer 24937-78-8, EVA 24991-43-3, Butadiene-propylene copolymer
56652-70-1, Polymethyl-1-pentene

RL: POF (Polymer in formulation); USES (Uses)

(polyolefin molding compns. contg. synergistic heat stabilizer mixt.
for manuf. of calendered films and boards)

L7 ANSWER 2 OF 11 CAPLUS COPYRIGHT 2002 ACS

AN 1999:233957 CAPLUS

DN 130:282863

TI Stabilized isocyanate-reactive compound and polyurethane foam obtained
therefrom

IN Calabrese, Ronald A.; Boccuzzi, Rosemarie A.

PA Uniroyal Chemical Company, Inc., USA

SO PCT Int. Appl., 33 pp.

CODEN: PIXXD2

DT Patent

LA English

IC ICM C08K005-134

CC 37-6 (Plastics Manufacture and Processing)

FAN.CNT 1

| | PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------|--|------|----------|-----------------|----------|
| PI | WO 9916821 | A1 | 19990408 | WO 1998-US20349 | 19980929 |
| | W: BR, CA, MX, US | | | | |
| | RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE | | | | |
| | CA 2302707 | AA | 19990408 | CA 1998-2302707 | 19980929 |
| | EP 1023377 | A1 | 20000802 | EP 1998-949599 | 19980929 |
| | R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI | | | | |
| | BR 9815386 | A | 20001121 | BR 1998-15386 | 19980929 |
| | US 6348514 | B1 | 20020219 | US 2000-486762 | 20000301 |
| PRAI | US 1997-60568P | P | 19970930 | | |
| | WO 1998-US20349 | W | 19980929 | | |

AB Disclosed is an isocyanate-reactive compn. comprising an
isocyanate-reactive compd. having an equiv. wt. of from about 400 to about
12000, and a stabilizing amt. of Me 3-(4-hydroxy-3,5-di-tert-
butylphenyl)propionate with optional costabilizers selected from another
phenolic, an amine, a ***phosphite***, a thioether, or a lactone
stabilizer to form a stabilizer package which may be further used in a
process for prepg. a flexible polyurethane foam comprising reacting
together an org. polyisocyanate with an isocyanate-reactive compn. in the
presence of a blowing agent to form the polyurethane foam. These
stabilizer packages impart phys. and color scorch protection to the
polyurethane foam products.

ST scorch resistant polyurethane foam manuf polyol stabilizer mixt; lactone
tertiary butylhydroxyphenylpropionate polyol mixt polyurethane foam manuf;
thioether tertiary butylhydroxyphenylpropionate polyol mixt polyurethane
foam manuf; ***phosphite*** tertiary butylhydroxyphenylpropionate
polyol mixt polyurethane foam manuf; amine tertiary
butylhydroxyphenylpropionate polyol mixt polyurethane foam manuf;
hydroxyphenylpropionate tertiary butyl polyol mixt polyurethane foam manuf

IT Plastic foams

RL: PRP (Properties)

(Me- (di-tert-butylhydroxyphenyl)propionate-stabilized isocyanate-reactive compds. for scorch-resistant polyurethane foams)

IT Amines, uses
Phenols, uses
RL: MOA (Modifier or additive use); USES (Uses)
(hindered, optional costabilizer; Me- (di-tert-butylhydroxyphenyl)propionate-stabilized isocyanate-reactive compds. for scorch-resistant polyurethane foams)

IT Lactones
Thioethers
RL: MOA (Modifier or additive use); USES (Uses)
(optional costabilizer; Me- (di-tert-butylhydroxyphenyl)propionate-stabilized isocyanate-reactive compds. for scorch-resistant polyurethane foams)

IT Polyurethanes, properties
RL: POF (Polymer in formulation); PRP (Properties); USES (Uses)
(polyether-; Me- (di-tert-butylhydroxyphenyl)propionate-stabilized isocyanate-reactive compds. for scorch-resistant polyurethane foams)

IT 6386-38-5
RL: MOA (Modifier or additive use); USES (Uses)
(Me- (di-tert-butylhydroxyphenyl)propionate-stabilized isocyanate-reactive compds. for scorch-resistant polyurethane foams)

IT 26471-62-5D, TDI, polyether-polyurethanes
RL: POF (Polymer in formulation); PRP (Properties); USES (Uses)
(Me- (di-tert-butylhydroxyphenyl)propionate-stabilized isocyanate-reactive compds. for scorch-resistant polyurethane foams)

IT 74-31-7, N,N'-Diphenyl-p-phenylenediamine 88-24-4, 2,2'-Methylenebis(4-ethyl-6-tert-butylphenol) 88-26-6, 2,6-Di-tert-butyl-4-hydroxymethylphenol 89-83-8, Thymol 96-66-2, 4,4'-Thiobis(6-tert-butyl-o-cresol) 99-89-8, p-Isopropylphenol 101-54-2, p-Amino-diphenylamine 101-73-5, p-Isopropoxydiphenylamine 104-40-5 119-47-1, 2,2'-Methylenebis(6-tert-butyl-4-methylphenol) 122-37-2, p-Hydroxyldiphenylamine 122-39-4, Diphenylamine, uses 122-39-4D, Diphenylamine, octyl- Bu Ph derivs. 128-37-0, BHT, uses 140-66-9, p-(1,1,3,3-Tetramethylbutyl)phenol 1205-71-6, p-Chlorodiphenylamine 1319-77-3, Cresol 1638-22-8, p-Butylphenol 1879-09-0, 6-tert-Butyl-2,4-dimethyl-phenol 2082-79-3 4130-42-1, 2,6-Di-tert-butyl-4-ethylphenol 4306-88-1 4496-45-1 4496-49-5 4627-22-9, p,p'-Di-tert-butylldiphenylamine 5530-30-3, 4-Butyl-2,6-di-tert-butylphenol 15721-78-5, p,p'-Di-tert-octyldiphenylamine 15721-82-1 17540-75-9, 2,6-Di-tert-butyl-4-sec-butylphenol 19277-65-7, Octadecyl 3,5-di-tert-butyl-4-***hydroxycinnamate*** 19371-09-6, 2,4-Dimethyl-6-octylphenol 22014-01-3D, 3,5-Di-tert-butyl-4-hydroxycinnamic acid, C7-9 branched alkyl ester 25167-96-8, Dinaphthylamine 36294-24-3, Ethyl 3-(3,5-di-tert-butyl-4-hydroxyphenyl)propionate 76434-14-5, Ditolylamine 84875-82-1 124367-43-7, Propyl 3-(3,5-di-tert-butyl-4-hydroxyphenyl)propionate 142944-36-3, p'-Butyl-p-tert-octyldiphenylamine 222855-41-6 222855-42-7, Dianilinodiphenylmethane 222981-25-1 222981-26-2, [1,1'-Biphenyl]-ar,ar',4,4'-tetrol
RL: MOA (Modifier or additive use); USES (Uses)
(optional costabilizer; Me- (di-tert-butylhydroxyphenyl)propionate-stabilized isocyanate-reactive compds. for scorch-resistant polyurethane foams)

RE.CNT 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD

RE

- (1) Mitsubishi Chem Ind Ltd; JP 51117750 A 1976 CAPLUS
- (2) Statton, G; US 4444676 A 1984 CAPLUS
- (3) Uniroyal Chemical Company Inc; WO 9422945 A 1994 CAPLUS

L7 ANSWER 3 OF 11 CAPLUS COPYRIGHT 2002 ACS
AN 1998:217479 CAPLUS
DN 128:231480

TI Polyamide-acrylonitrile-butadiene rubber blends with reduced gel and
antigel agent
IN Horvath, James Walter; Howard, Faith Michelle
PA Goodyear Tire + Rubber Co., USA
SO Eur. Pat. Appl., 6 pp.
CODEN: EPXXDW
DT Patent
LA English
IC ICM C08L009-02
ICS C08K005-08; C08K005-13; C08K005-524; C08K005-38
ICI C08L009-02, C08L077-00
CC 39-9 (Synthetic Elastomers and Natural Rubber)
Section cross-reference(s): 37

FAN.CNT 1

| | PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------|---|------|----------|-----------------|----------|
| PI | EP 832923 | A1 | 19980401 | EP 1997-116495 | 19970922 |
| | R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI | | | | |
| | US 5852086 | A | 19981222 | US 1996-729635 | 19960930 |
| | CA 2209468 | AA | 19980330 | CA 1997-2209468 | 19970702 |
| | JP 10120831 | A2 | 19980512 | JP 1997-265794 | 19970930 |
| PRAI | US 1996-729635 | | 19960930 | | |
| AB | An antigel agent composed of 4 types of antioxidants allows polyamides to be blended with acrylonitrile/butadiene polymers with min. generation of gels and yields a blend which can be extruded or sheeted to give a uniform shaped product, for example, sheets and molded articles, and is essentially free of plugging the screens of the extruder used to extrude hose tube or sheet. An example antigel stabilizer package contained trisnonylphenyl ***phosphite***, octadecyl-3,5-di-tert-butyl-4-***hydroxycinnamate***, 2,5-di-tert-amyl hydroquinone, and distearylthiodipropionate. | | | | |
| ST | polyamide nitrile rubber blend; antioxidant mixt blend extrusion; gel redn polyamide blend stabilizer package; phenolic antioxidant stabilizer polyamide blend; hydroquinone antioxidant stabilizer polyamide blend; thioester antioxidant stabilizer polyamide blend; ***phosphite*** antioxidant stabilizer polyamide blend | | | | |
| IT | Polyamides, uses RL: PEP (Physical, engineering or chemical process); POF (Polymer in formulation); PROC (Process); USES (Uses) (arom.; polyamide-acrylonitrile-butadiene rubber blends with reduced gel and antigel agent for easy blend extrusion) | | | | |
| IT | Antioxidants (blend of phenolic compd., alkyl hydroquinone, thioester synergist, and org. ***phosphite***; polyamide-acrylonitrile-butadiene rubber blends with reduced gel and antigel agent for easy blend extrusion) | | | | |
| IT | Polymer blends RL: PEP (Physical, engineering or chemical process); PROC (Process) (polyamide-acrylonitrile-butadiene rubber blends with reduced gel and antigel agent for easy blend extrusion) | | | | |
| IT | Nitrile rubber, uses Polyamides, uses RL: PEP (Physical, engineering or chemical process); POF (Polymer in formulation); PROC (Process); USES (Uses) (polyamide-acrylonitrile-butadiene rubber blends with reduced gel and antigel agent for easy blend extrusion) | | | | |
| IT | 9003-18-3 RL: PEP (Physical, engineering or chemical process); POF (Polymer in formulation); PROC (Process); USES (Uses) (nitrile rubber, polyamide-acrylonitrile-butadiene rubber blends with reduced gel and antigel agent for easy blend extrusion) | | | | |
| IT | 79-74-3, 2,5-Di-tert-amyl hydroquinone 693-36-7, Distearylthiodipropionate 3806-34-6, Distearyl pentaerythritol | | | | |

diphosphite 10595-72-9 16545-54-3, Dimyristylthiodipropionate
 19277-65-7, Octadecyl-3,5-di-tert-butyl-4- ***hydroxycinnamate***
 26523-78-4, Trisnonylphenyl ***phosphite*** 26741-53-7,
 Bis-2,4-di-tert-butylphenyl pentaerythritol diphosphite
 RL: MOA (Modifier or additive use); USES (Uses)
 (part of stabilizer package for polyamide-acrylonitrile-butadiene
 rubber blends)

L7 ANSWER 4 OF 11 CAPLUS COPYRIGHT 2002 ACS
 AN 1996:457825 CAPLUS
 DN 125:114592
 TI Preparation of benzoxazoles and analogs as lipoxxygenase inhibitors
 IN Wakabayashi, Toshio; Furusaka, Takatoshi; Ooba, Setsuya; Murota, Seiitsu
 PA Sando Yakuhin Kk, Japan
 SO Jpn. Kokai Tokkyo Koho, 25 pp.
 CODEN: JKXXAF

DT Patent
 LA Japanese
 IC ICM C07D263-56
 ICS A61K031-42; A61K031-425; A61K031-435; C07D277-64; C07D498-04
 CC 28-6 (Heterocyclic Compounds (More Than One Hetero Atom))
 Section cross-reference(s): 1

FAN.CNT 1

| | PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|----|-------------------|------|----------|-----------------|----------|
| PI | JP 08113567 | A2 | 19960507 | JP 1994-251082 | 19941017 |
| OS | MARPAT 125:114592 | | | | |
| GI | | | | | |

/ Structure 1 in file .gra /

AB The title compds. I [n = 1 or 2; R1 = OH, MeO, Me; R2 = H; R3 = H, Me,
 etc.; Y = Q1, etc.; R4 - R6 = H, alkyl, etc.; X = O, S] are prep'd. The
 title comp'd. (E)-II (NMR data given) in vitro showed IC50 of 8.9 x 10⁻⁷ M
 against lipoxxygenase.

ST benzoxazole prepn lipoxxygenase inhibitor
 IT Allergy inhibitors
 Inflammation inhibitors
 (benzoxazoles and analogs)

IT 173033-15-3P 173033-24-4P 173033-26-6P 173033-27-7P 173033-28-8P
 173033-32-4P 173033-33-5P 173033-34-6P 173033-35-7P 173033-38-0P
 179122-04-4P 179122-05-5P 179122-06-6P 179122-07-7P 179122-08-8P
 179122-09-9P 179122-10-2P 179122-11-3P 179122-12-4P 179122-13-5P
 179122-14-6P 179122-15-7P 179122-16-8P 179122-17-9P 179122-18-0P
 179122-19-1P 179122-20-4P 179122-21-5P 179122-22-6P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological
 study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use);
 BIOL (Biological study); PREP (Preparation); USES (Uses)
 (prepn. of benzoxazoles and analogs as lipoxxygenase inhibitors)

IT 80619-02-9, 5-Lipoxxygenase
 RL: BSU (Biological study, unclassified); BIOL (Biological study)
 (prepn. of benzoxazoles and analogs as lipoxxygenase inhibitors)

IT 79-04-9, Chloroacetyl chloride 95-55-6, 2-Aminophenol 95-84-1,
 2-Amino-4-methylphenol 95-85-2, 2-Amino-4-chlorophenol 96-53-7,
 2-Mercaptothiazoline 122-52-1, Triethyl ***phosphite*** 867-13-0,
 Triethyl phosphonoacetate 1198-27-2, 1-Amino-2-naphthol hydrochloride
 2233-18-3, 4-Hydroxy-3,5-dimethylbenzaldehyde 5533-00-6 26628-22-8,
 Sodium azide 30192-51-9 37859-43-1, 2-Chloromethylbenzothiazole
 56862-58-9 67190-14-1, Ethyl 3-amino-4-hydroxybenzoate hydrochloride
 69113-98-0, Ethyl 3,5-dimethoxy-4- ***hydroxycinnamate*** 110704-34-2
 116993-80-7 164408-51-9

RL: RCT (Reactant); RACT (Reactant or reagent)
 (prepn. of benzoxazoles and analogs as lipoxygenase inhibitors)
 IT 6913-45-7P 10147-68-9P 18853-71-9P 32278-24-3P 35588-38-6P
 41014-40-8P 41014-43-1P 41014-44-2P 63842-07-9P 63842-14-8P
 63842-22-8P 134997-67-4P 157028-15-4P 162190-75-2P 164408-47-3P
 164408-49-5P 164408-50-8P 164408-52-0P 164408-53-1P 164408-54-2P
 164408-55-3P 173033-17-5P 173033-18-6P 173033-19-7P 173033-20-0P
 173033-21-1P 173033-36-8P 173033-37-9P 179122-23-7P 179122-24-8P
 179122-25-9P 179122-26-0P 179122-27-1P 179122-28-2P 179122-29-3P
 179122-30-6P 179122-31-7P 179122-32-8P 179122-33-9P 179122-34-0P
 179122-35-1P 179122-36-2P 179122-37-3P 179122-38-4P 179122-39-5P
 179122-40-8P 179122-41-9P 179122-42-0P 179122-43-1P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
 (Reactant or reagent)
 (prepn. of benzoxazoles and analogs as lipoxygenase inhibitors)

L7 ANSWER 5 OF 11 CAPLUS COPYRIGHT 2002 ACS
 AN 1995:559646 CAPLUS
 DN 122:292342
 TI Preparation of monoclinic (.alpha.) crystalline modification of
 2,2',2''-nitrilo[triethyl-tris(3,3',5,5'-tetra-tert-butyl-1,1'-biphenyl-
 2,2'-diyl) ***phosphite***] as an antioxidant and heat stabilizer
 IN Pastor, Stephen D.; Shum, Sai P.; Odoristo, Paul A.
 PA Ciba-Geigy A.-G., Switz.
 SO PCT Int. Appl., 33 pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 IC ICM C07F009-6574
 ICS C08K005-527
 CC 37-6 (Plastics Manufacture and Processing)
 FAN.CNT 2

| | PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------|--|------|----------|-----------------|----------|
| PI | WO 9412509 | A1 | 19940609 | WO 1993-US11327 | 19931122 |
| | W: AU, BB, BG, BR, BY, CA, CZ, FI, HU, JP, KP, KR, KZ, LK, LV, MG, MN, MW, NO, NZ, PL, RO, RU, SD, SK, UA, US, UZ, VN | | | | |
| | RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG | | | | |
| | US 5334739 | A | 19940802 | US 1992-983180 | 19921130 |
| | CA 2148926 | AA | 19940609 | CA 1993-2148926 | 19931122 |
| | AU 9456745 | A1 | 19940622 | AU 1994-56745 | 19931122 |
| | AU 686124 | B2 | 19980205 | | |
| | EP 670843 | A1 | 19950913 | EP 1994-902345 | 19931122 |
| | EP 670843 | B1 | 19970226 | | |
| | R: AT, BE, DE, ES, FR, GB, IT, NL, SE | | | | |
| | JP 08503948 | T2 | 19960430 | JP 1993-513309 | 19931122 |
| | AT 149173 | E | 19970315 | AT 1994-902345 | 19931122 |
| | ES 2100672 | T3 | 19970616 | ES 1994-902345 | 19931122 |
| | RU 2114856 | C1 | 19980710 | RU 1995-113872 | 19931122 |
| | BR 9307546 | A | 19990831 | BR 1993-7546 | 19931122 |
| | SK 280212 | B6 | 19991008 | SK 1995-717 | 19931122 |
| | ZA 9308893 | A | 19940601 | ZA 1993-8893 | 19931129 |
| PRAI | US 1992-983180 | A | 19921130 | | |
| | WO 1993-US11327 | W | 19931122 | | |

GI

/ Structure 2 in file .gra /

AB The title compd. (I), useful for stabilizing org. materials against oxidative, thermal or light-induced degrdn., is prepd. in .alpha.,

monoclinic cryst. form m. 145-165.degree. and having a distinct X-ray diffraction pattern (data given) and a relative abs. configuration of the 3 dibenzo[d,f][1,3,2]dioxaphosphhepin rings of R*,R*,R*. This was accomplished by (re)crystn. from a mixt. of an arom. hydrocarbon and a C1-3 alkanol solvent or from an ether, or ester, or a mixt. of halo aliph. hydrocarbons and C1-3 alkanols, esp. from EtOAc, Et2O, or a Me2CHOH-CH2Cl2 mixt. The powder form is inferior in terms of handling, apparent d., flowability, metering capability, storage and hydrolytic stability. Thus, polypropylene (Profax 6501) contg. Ca stearate 0.075, neopentanetetrayl tetrakis(3,5-di-tert-butyl-4- ***hydroxycinnamate***) 0.075, and monoclinic I 0.075% had melt index 5.6 after 1st and 7.4 after 3d extrusion, vs. 8.1 and 17.5 for a similar compn. contg. no I.

ST polypropylene stabilization biphenyldiyl ***phosphite*** deriv;
biphenyldiyl ***phosphite*** deriv heat stabilizer; nitrilotriethyl
phosphite biphenyldiyl heat stabilizer polypropylene; crystn
biphenyldiyl ***phosphite*** deriv solvent mixt

IT Antioxidants
Heat stabilizers
(prepn. of .alpha.-cryst. modification of 2,2',2''-nitrilo[triethyl-
tris(3,3',5,5'-tetra-tert-butyl-1,1'-biphenyl-2,2'-diyl)
phosphite] as an antioxidant and heat stabilizer)

IT 80410-33-9P, Ethanamine, 2-[[[2,4,8,10-tetrakis(1,1-
dimethylethyl)dibenzo[d,f][1,3,2]dioxaphosphhe pin-6-yl]oxy]-N,N-bis[2-
[[2,4,8,10-tetrakis(1,1-dimethylethyl)dibenzo[d,f][1,3,2]dioxaphosphhepin-6-
yl]oxy]ethyl]-
RL: MOA (Modifier or additive use); PRP (Properties); SPN (Synthetic
preparation); PREP (Preparation); USES (Uses)
(monoclinic cryst. modification; prepn. of .alpha.-cryst. modification
of 2,2',2''-nitrilo[triethyl-tris(3,3',5,5'-tetra-tert-butyl-1,1'-
biphenyl-2,2'-diyl) ***phosphite***] as an antioxidant and heat
stabilizer)

IT 25085-53-4, Profax 6501
RL: POF (Polymer in formulation); USES (Uses)
(prepn. of .alpha.-cryst. modification of 2,2',2''-nitrilo[triethyl-
tris(3,3',5,5'-tetra-tert-butyl-1,1'-biphenyl-2,2'-diyl)
phosphite] as an antioxidant and heat stabilizer)

L7 ANSWER 6 OF 11 CAPLUS COPYRIGHT 2002 ACS
AN 1995:559645 CAPLUS
DN 122:292341
TI Preparation of triclinic (.beta.) crystalline modification of
2,2',2''-nitrilo[triethyl-tris(3,3',5,5'-tetra-tert-butyl-1,1'-biphenyl-
2,2'-diyl) ***phosphite***] as an antioxidant and heat stabilizer
IN Pastor, Stephen D.; Shum, Sai P.
PA Ciba-Geigy A.-G., Switz.
SO PCT Int. Appl., 34 pp.
CODEN: PIXXD2
DT Patent
LA English
IC ICM C07F009-6574
ICS C09K015-32; C08K005-527
CC 37-6 (Plastics Manufacture and Processing)
FAN.CNT 2

| | PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|----|---|------|----------|-----------------|----------|
| PI | WO 9412508 | A1 | 19940609 | WO 1993-US11320 | 19931122 |
| | W: AU, BB, BG, BR, BY, CA, CZ, FI, HU, JP, KP, KR, KZ, LK, LV, MG, MN, MW, NO, NZ, PL, RO, RU, SD, SK, UA, US, UZ, VN | | | | |
| | RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG | | | | |
| | US 5326802 | A | 19940705 | US 1992-983181 | 19921130 |
| | CA 2148933 | AA | 19940609 | CA 1993-2148933 | 19931122 |
| | AU 9456157 | A1 | 19940622 | AU 1994-56157 | 19931122 |

| | | | | |
|---------------------------------------|----|----------|----------------|----------|
| AU 687021 | B2 | 19980219 | | |
| EP 670842 | A1 | 19950913 | EP 1994-901637 | 19931122 |
| EP 670842 | B1 | 19970122 | | |
| R: AT, BE, DE, ES, FR, GB, IT, NL, SE | | | | |
| AT 148125 | E | 19970215 | AT 1994-901637 | 19931122 |
| ES 2099574 | T3 | 19970516 | ES 1994-901637 | 19931122 |
| RU 2123007 | C1 | 19981210 | RU 1995-114523 | 19931122 |
| SK 279945 | B6 | 19990611 | SK 1995-715 | 19931122 |
| BR 9307544 | A | 19990615 | BR 1993-7544 | 19931122 |
| ZA 9308894 | A | 19940801 | ZA 1993-8894 | 19931129 |
| PRAI US 1992-983181 | A | 19921130 | | |
| WO 1993-US11320 | W | 19931122 | | |

GI

/ Structure 3 in file .gra /

AB The title compd. (I), useful for stabilizing org. materials against oxidative, thermal or light-induced degrdn., is prep'd. in a .beta., triclinic cryst. form m. 200-207.degree. and having a distinct X-ray diffraction pattern (data given) and a relative abs. configuration of the 3 stereo axes of the dibenzo[d,f][1,3,2]dioxaphosphopin rings of R*,R*,S*. This was accomplished by heating the melt of I at 177-200.degree. under reduced pressure (with optional seeding), or by recrystn. from a solvent, esp. from BuOH mixts. with PhMe, MeCOEt, or Me2CO. The powder form is inferior in terms of handling, apparent d., flowability, metering capability, storage and hydrolytic stability. Thus, polypropylene (Profax 6501) contg. Ca stearate 0.075, neopentetetrayl tetrakis(3,5-di-tert-butyl-4- ***hydroxycinnamate***) 0.075, and triclinic I 0.075% had melt index 5.8 after 1st and 8.6 after 3d extrusion, vs. 8.1 and 17.5 for a similar compn. contg. no I.

ST polypropylene stabilization biphenyl ***phosphite*** deriv; biphenyl ***phosphite*** deriv heat stabilizer; nitrilotriethyl ***phosphite*** biphenyldiyl heat stabilizer polypropylene; crystn biphenyldiyl ***phosphite*** deriv solvent mixt

IT Antioxidants
Heat stabilizers
(prepn. of .beta.-cryst. modification of nitrilo[triethyl-tris(tetra-tert-butylbiphenyldiyl) ***phosphite***] as antioxidant and heat stabilizer)

IT 25085-53-4, Profax 6501
RL: MSC (Miscellaneous)
(heat stabilization of; prepn. of .beta.-cryst. modification of nitrilo[triethyl-tris(tetra-tert-butylbiphenyldiyl) ***phosphite***] as antioxidant and heat stabilizer)

IT 80410-33-9P, Ethanamine, 2-[[[2,4,8,10-tetrakis(1,1-dimethylethyl)dibenzo[d,f][1,3,2]dioxaphosphopin-6-yl]oxy]-N,N-bis[2-[[[2,4,8,10-tetrakis(1,1-dimethylethyl)dibenzo[d,f][1,3,2]dioxaphosphopin-6-yl]oxy]ethyl]-
RL: MOA (Modifier or additive use); PRP (Properties); SPN (Synthetic preparation); PREP (Preparation); USES (Uses)
(triclinic cryst. modification; prepn. of .beta.-cryst. modification of nitrilo[triethyl-tris(tetra-tert-butylbiphenyldiyl) ***phosphite***] as antioxidant and heat stabilizer)

L7 ANSWER 7 OF 11 CAPLUS COPYRIGHT 2002 ACS
AN 1992:514966 CAPLUS
DN 117:114966
TI Lubricating oil compositions containing novel combination of stabilizers
IN Cohen, Stephen Cedric
PA Petro-Canada Inc., Can.
SO Eur. Pat. Appl., 12 pp.

CODEN: EPXXDW
DT Patent
LA English
IC ICM C10M141-10
ICI C10M141-10, C10M133-40, C10M137-02; C10N030-10
CC 51-8 (Fossil Fuels, Derivatives, and Related Products)
FAN.CNT 1

| | PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------|--|---|-------------|-----------------|----------|
| PI | EP 475560 | A1 | 19920318 | EP 1991-301979 | 19910311 |
| | R: DE, FR, GB, IT, SE | | | | |
| | CA 2025416 | AA | 19920315 | CA 1990-2025416 | 19900914 |
| | JP 04234495 | A2 | 19920824 | JP 1991-190996 | 19910705 |
| PRAI | CA 1990-2025416 | | 19900914 | | |
| OS | MARPAT 117:114966 | | | | |
| AB | The lubricating oil compns. comprise a major amt. of lubricating oil selected from hydrotreated oil, poly-.alpha.-olefin and paraffinic white oil, and an antioxidant synergistic mixt. of (a) a low-volatility, hydrolytically stable, org. substituted ***phosphite*** or diphosphate, where the substituents groups are alkyl, aryl or alkylaryl, and ***phosphite*** contains no hydroxy groups, and (b) tris(2-hydroxyethyl-3,5-di-tert-butylhydroxycinnamate), isocyanurate or tris(3,5-di-tert-butyl-4-hydroxybenzyl)isocyanate. A suitable ***phosphite*** is tris(2,4-di-tert-butylphenyl) ***phosphite***. | | | | |
| ST | lubricating oil stabilizer antioxidant; ***phosphite*** isocyanurate antioxidant lubricating oil; phenol hindered diphosphate antioxidant lubricating | | | | |
| IT | Hydraulic fluids (antioxidants for, tris(hydroxyethyl-di-butyl- ***hydroxycinnamate***)isocyanurate and tris(di-tert-butyl(phenyl) ***phosphite***) | | | | |
| IT | Lubricating oil additives (antioxidants, hindered phenols(di) ***phosphites***) | | | | |
| IT | Lubricating oils (turbine, contg. tris(hydroxyethyl-di-tert-butyl-hydroxy cinnamate) isocyanurate and tris(di-tert-butylphenyl) ***phosphite***) | | | | |
| IT | 27676-62-6 | 34137-09-2 | | | |
| | RL: USES (Uses) (antioxidants contg. (di) ***phosphite*** and, for lubricating oils) | | | | |
| IT | 26741-53-7, | Bis(2,4-di-tert-butylphenyl)pentaerythritol | diphosphate | | |
| | 31570-04-4 | | | | |
| | RL: USES (Uses) (antioxidants contg. hindered phenols and, for lubricating oils) | | | | |

L7 ANSWER 8 OF 11 CAPLUS COPYRIGHT 2002 ACS
AN 1991:44312 CAPLUS
DN 114:44312
TI ***Hydroxycinnamates*** and stabilized polyolefin compositions containing them
IN Miura, Takanori; Inoue, Takeshi; Aibayashi, Masayoshi
PA Yoshitomi Pharmaceutical Industries, Ltd., Japan
SO Jpn. Kokai Tokkyo Koho, 6 pp.
CODEN: JKXXAF

DT Patent
LA Japanese
IC ICM C07C069-732
ICS C08K005-13; C08L023-02
CC 37-6 (Plastics Manufacture and Processing)

FAN.CNT 1

| | PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|----|-------------|------|----------|-----------------|----------|
| PI | JP 02193947 | A2 | 19900731 | JP 1989-14631 | 19890123 |
| GI | | | | | |

AB ***Hydroxycinnamates*** I [Z = 3-(3-tert-butyl-4-hydroxy-5-R-substituted-phenyl)propionyloxymethyl; R = C1-8 alkyl; m = 1-4] are useful as stabilizers for polyolefins. Stabilized polyolefin compns. contg. I and optionally tetrakis[3-(3,5-di-tert-butyl-4-hydroxyphenyl)propionyloxymethyl]methane are also claimed. Thus, Me 3,5-di-tert-butyl-4-hydroxyphenylpropionate was oxidized by air at 200-205.degree., then treated with pentaerythritol in the presence of Li amide at 150-200.degree. and 200-10 mmHg to give I [R = Me3C, Z = 3-(3,5-di-tert-butyl-4-hydroxyphenyl)propionyloxymethyl, m = 1] (II). Then, polypropylene was mixed with 0.1% Ca stearate and 0.1% II, pelletized, then injection molded to give 1-mm test pieces with good thermal stability in processing, which showed brittleness point at 150.degree. 800 h and yellowing index 5.5, vs. 20 and 5.9, resp., for a similar compn. contg. tris(2,4-di-tert-butylphenyl) ***phosphite*** instead of II.

ST ***hydroxycinnamate*** polyolefin stabilizer; cinnamic ester
polyolefin stabilizer; hydroxyphenylpropionyloxymethylmethane
hydroxycinnamate polyolefin stabilized

IT Antioxidants
(***hydroxycinnamates*** , for polyolefins)

IT Alkenes, polymers
RL: USES (Uses)
(polymers, antioxidants for, ***hydroxycinnamates*** and optionally tetrakis[(hydroxyphenyl)propionyloxymethyl]methane as)

IT 9003-07-0, Polypropylene
RL: USES (Uses)
(antioxidants for, ***hydroxycinnamates*** and optionally tetrakis[(hydroxyphenyl)propionyloxymethyl]methane as)

IT 6386-38-5
RL: USES (Uses)
(oxidn. and transesterification of, with pentaerythritol)

IT 6683-19-8
RL: USES (Uses)
(polyolefin stabilized with ***hydroxycinnamates*** and)

IT 131610-63-4P
RL: PREP (Preparation)
(prepn. of, as stabilizers for polypropylene)

IT 115-77-5, reactions
RL: RCT (Reactant)
(transesterification of, with oxidized hydroxyphenylpropionates)

L7 ANSWER 9 OF 11 CAPLUS COPYRIGHT 2002 ACS
AN 1977:29505 CAPLUS
DN 86:29505
TI Halogenated ***hydroxycinnamate*** phosphates
IN Bodalski, Ryszard; Mikolajczyk, Jerzy; Sledzinski, Bohdan; Zwierzak, Andrzej; Cieslak, Ludwika
PA Instytut Przemyslu Organicznego, Pol.
SO Pol., 3 pp.
CODEN: POXXA7
DT Patent
LA Polish
IC C07F009-08
CC 25-18 (Noncondensed Aromatic Compounds)
FAN.CNT 1

| | PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|----|---|------|----------|-----------------|----------|
| PI | PL 78177 | B | 19750430 | PL 1972-156739 | 19720717 |
| AB | Biol. active phosphates (R1CH2O)2P(O)2CR:CBrcO2Et (R = mono-, di-, or | | | | |

trichlorophenyl; R1 = H, Me, Et, ClCH2) (13 in all) were prepd. by
 condensation of RCOBr2CO2Et with the appropriate trialkyl
 phosphite
 ST ***hydroxycinnamate*** phosphate; cinnamate hydroxy phosphate;
 halocinnamate phosphonooxy
 IT 61479-58-1DP, esters 61479-59-2DP, esters 61479-60-5DP, esters
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (prepn. of)
 IT 10294-56-1D, esters
 RL: RCT (Reactant)
 (reaction of, with (chlorobenzoyl)dibromoacetate)
 IT 61447-43-6 61447-44-7 61447-45-8
 RL: RCT (Reactant)
 (reaction of, with trialkyl ***phosphites***)

L7 ANSWER 10 OF 11 CAPLUS COPYRIGHT 2002 ACS
 AN 1977:29504 CAPLUS
 DN 86:29504
 TI Chlorinated ***hydroxycinnamate*** phosphates
 IN Sledzinski, Bohdan; Bodalski, Ryszard; Mikolajczyk, Jerzy; Zwierzak,
 Andrzej; Cieslak, Ludwika
 PA Instytut Przemyslu Organicznego, Pol.
 SO Pol., 3 pp.
 CODEN: POXXA7
 DT Patent
 LA Polish
 IC C07F009-08
 CC 25-18 (Noncondensed Aromatic Compounds)
 FAN.CNT 1

| | PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|----|--|------|----------------------|----------------------|----------|
| PI | PL 78175 | B | 19750430 | PL 1972-156738 | 19720717 |
| AB | Biol. active phosphates (R1CH2O)2PO2CR:CClCO2Et (R = mono-, di-, or trichlorophenyl; R1 = H, Me, Et, ClCH2) (13 in all) were prepd. by condensation of RCOCCl2CO2Et with the appropriate ***phosphite*** | | | | |
| ST | ***hydroxycinnamate*** phosphate; cinnamate hydroxy phosphate; chlorocinnamate phosphonooxy | | | | |
| IT | 61479-61-6DP, esters | | 61479-62-7DP, esters | 61488-02-6DP, esters | |
| | RL: SPN (Synthetic preparation); PREP (Preparation) (prepn. of) | | | | |
| IT | 10294-56-1D, esters | | | | |
| | RL: RCT (Reactant) (reaction of, with (chlorobenzoyl)dichloroacetate) | | | | |
| IT | 61447-40-3 | | 61447-41-4 | 61447-42-5 | |
| | RL: RCT (Reactant) (reaction of, with trialkyl ***phosphites***) | | | | |

L7 ANSWER 11 OF 11 CAPLUS COPYRIGHT 2002 ACS
 AN 1966:67353 CAPLUS
 DN 64:67353
 OREF 64:12554c-g
 TI Insecticidal and acaricidal compounds
 IN Beriger, Ernst
 PA CIBA Ltd.
 SO 8 pp.
 DT Patent
 LA Unavailable
 IC A01N
 CC 33 (Aliphatic Compounds)
 FAN.CNT 1

| | PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|----|------------|------|----------|-----------------|------|
| PI | DE 1187848 | | 19650225 | DE | |

AB The title compds. (R1O)2P(O)OCR4:CR3CO2R2 (I) are prepd. by condensation of tertiary ***phosphites*** (R1O)2POR5 with .alpha.-halo-.beta.-oxo esters R4C(O)CXR3CO2R2 (X = halogen) in a solvent at 90-150.degree.. The I prepd. are listed in the table. The results of test some of these materials are reported. R1, R2, R3, R4, B.p./mm.; Me, C2H4OMe, Cl, Me, 147-8.degree./0.04; Et, C2H4OMe, Cl, Me, 136-40.degree./0.03; Me, C2H4OPr, Cl, Me, 152-4.degree./0.1; Et, C2H4OPr, Cl, Me, 148.degree./0.02; Me, C2H4OBu, Cl, Me, 154-5.degree./0.09; Et, C2H4OBu, Cl, Me, 151-5.degree./0.03; Me, C2H4OPh, Cl, Me, 193-8.degree./0.15; Et, C2H4OPh, Cl, Me, 197-203.degree./0.15; Me, C2H4OC2H4OMe, H, Me, 155.degree./0.06; Et, C2H4OC2H4OMe, H, Me, 157-60.degree./0.03; Me, C2H4OC2H4OMe, Cl, Me, 164.degree./0.2; Et, C2H4OC2H4Me, Cl, Me, 184.degree./0.25; Me, C2H4OC2H4OEt, H, Me, 155-8.degree./0.05; Et, C2H4OC2H4OEt, H, Me, 145.degree./0.015; iso-Pr, C2H4OC2H4OEt, H, Me, oil; CH2:CHCH2, C2H4OC2H4OEt, H, Me, oil; Bu, C2H4OC2H4OEt, H, Me, oil; Me, C2H4OC2H4OEt, Cl, Me, 158-60.degree./0.12; Et, C2H4OC2H4OEt, Cl, Me, 158.degree./0.04; Me, C2H4OC2H4OEt, H, Me, 142.degree./0.02; Et, C2H4OC2H4OPr, H, Me, 146-52.degree./0.03; Me, C2H4OC2H4OPr, Cl, Me, oil; Et, C2H4OC2H4OPr, Cl, Me, oil; Me, C2H4OCHMe2, Cl, Me, 137.degree./0.07; Et, C2H4OCHMe2, Cl, Me, 142.degree./0.04; Me, C2H4OBu-iso, Cl, Me, 150-3.degree./0.08; Et, C2H4OBu-iso, Cl, Me, 138-45.degree./0.03; Me, C2H4OCH2Ph, Cl, Me, oil; Me, CH(CH2OMe)2, H, Me, 127-34.degree./0.01; Et, CH(CH2OMe)2, H, Me, 134-8.degree./0.01; Me, CH(CH2OMe)2, Cl, Me, 158-60.degree./0.15; Et, CH(CH2OMe)2, Cl, Me, 142-5.degree./0.01; Me, (C2H4O)9Me, H, Me, oil; Et, (C2H4O)9Me, H, Me, oil; Me, (C2H4O)9Me, Cl, Me, oil; Et, (C2H4O)9Me, Cl, Me, oil; Me, C2H4OEt, Cl, Me, 136-40.degree./0.02; Et, C2H4OEt, Cl, Me, 146-50.degree./0.015; Me, C2H4OEt, Cl, Ph, oil; Et, C2H4OEt, Cl, Ph, oil; Me, C2H4SEt, H, Me, 110.degree./0.1; Et, C2H4SEt, H, Me, oil; Me, C2H4SEt, Cl, Me, oil; Et, C2H4SEt, Cl, Me, oil; .

IT Insecticides

(alkyl 3-hydroxycrotonate dialkyl phosphates as)

IT Crotonic acid, 2-chloro-3-hydroxy-, 2-(2-ethoxyethoxy)ethyl ester, di-Me phosphate

Crotonic acid, 2-chloro-3-hydroxy-, 2-(2-propoxyethoxy)ethyl ester, di-Me phosphlate

Crotonic acid, 2-chloro-3-hydroxy-, ester with 2,5,8,11,14,17,20,23,26-nonaaoctacosan-28-ol, phosphate

Crotonic acid, 3-hydroxy-, 2-(2-ethoxyethoxy)ethyl ester, di-Et phosphate

Crotonic acid, 3-hydroxy-, ester with 2,5,8,11,14,17,20,23,26-nonaaoctasan-28-ol, di-Me phosphate

IT Ethanol, 2-(2-ethoxyethoxy)-, 3-hydroxycrotonates

Ethanol, 2-(2-methoxyethoxy)-, 3-hydroxycrotonates

Ethanol, 2-(2-propoxyethoxy)-, 3-hydroxycrotonates

Ethanol, 2-(ethylthio)-, 3-hydroxycrotonates

Ethanol, 2-butoxy-, 2-chloro-3-hydroxycrotonate

Ethanol, 2-ethoxy-, 2-chloro-3-hydroxycrotonate

Ethanol, 2-ethoxy-, .alpha.-chloro-.beta.- ***hydroxycinnamate***

Ethanol, 2-isobutoxy-, 2-chloro-3-hydroxycrotonate

Ethanol, 2-isopropoxy-, 2-chloro-3-hydroxycrotonate

Ethanol, 2-methoxy-, 2-chloro-3-hydroxycrotonate

Ethanol, 2-phenoxy-, 2-chloro-3-hydroxycrotonate

Ethanol, 2-propoxy-, 2-chloro-3-hydroxycrotonate

(dialkyl phosphates)

IT 5827-96-3, Cinnamic acid, .alpha.-chloro-.beta.-hydroxy-, 2-ethoxyethyl ester, di-Me phosphate 5827-97-4, Cinnamic acid, .alpha.-chloro-.beta.-hydroxy-, 2-ethoxyethyl ester, di-Et phosphate 5949-71-3, Crotonic acid, 2-chloro-3-hydroxy-, 2-methoxyethyl ester, di-Et phosphate 5984-24-7, Ethanol, 2-(benzyloxy)-, 2-chloro-3-hydroxycrotonate, di-Me phosphate 90436-41-2, Crotonic acid, 2-chloro-3-hydroxy-, 2-methoxyethyl ester, di-Me phosphate 91086-88-3, Crotonic acid, 2-chloro-3-hydroxy-, 2-(ethylthio)ethyl ester, di-Me phosphate 91086-89-4, Crotonic acid, 2-chloro-3-hydroxy-, 2-ethoxyethyl ester, di Me phosphate 91242-53-4,

Crotonic acid, 3-hydroxy-, 2-(2-methoxyethoxy)ethyl ester, di-Me phosphate
 91242-54-5, Crotonic acid, 3-hydroxy-, 2-methoxy-1-(methoxymethyl)ethyl
 ester, di-Me phosphate 91351-83-6, Crotonic acid, 3-hydroxy-,
 2-(ethylthio)ethyl ester, di-Me phosphate 91354-79-9, Crotonic acid,
 2-chloro-3-hydroxy-, 2-isopropoxyethyl ester, di-Me phosphate
 91354-80-2, Crotonic acid, 2-chloro-3-hydroxy-, 2-propoxyethyl ester,
 di-Me phosphate 91354-81-3, Crotonic acid, 2-chloro-3-hydroxy-,
 2-(2-methoxyethoxy)ethyl ester, di-Me phosphate 91556-32-0, Crotonic
 acid, 2-chloro-3-hydroxy-, 2-(ethylthio)ethyl ester, di-Et phosphate
 91556-33-1, Crotonic acid, 2-chloro-3-hydroxy-, 2-butoxyethyl ester, di-Me
 phosphate 91556-34-2, Crotonic acid, 2-chloro-3-hydroxy-, 2-ethoxyethyl
 ester, di-Et phosphate 91688-23-2, Crotonic acid, 2-chloro-3-hydroxy-,
 2-isobutoxyethyl ester, di-Me phosphate 91881-00-4, Crotonic acid,
 3-hydroxy-, 2-(2-ethoxyethoxy)ethyl ester, di-Me phosphate 91972-56-4,
 Crotonic acid, 2-chloro-3-hydroxy-, 2-isopropoxyethyl ester, di-Et
 phosphate 91972-57-5, Crotonic acid, 2-chloro-3-hydroxy-, 2-propoxyethyl
 ester, di-Et phosphate 91972-58-6, Crotonic acid, 2-chloro-3-hydroxy-,
 2-(2-methoxyethoxy)ethyl ester, di-Et phosphate 92031-83-9, Crotonic
 acid, 3-hydroxy-, 2-(2-methoxyethoxy)ethyl ester, di-Et phosphate
 92031-84-0, Crotonic acid, 3-hydroxy-, 2-(2-propoxyethoxy)ethyl ester,
 di-Me phosphate 92369-93-2, Crotonic acid, 2-chloro-3-hydroxy-,
 2-butoxyethyl ester, di-Et phosphate 92369-94-3, Crotonic acid,
 2-chloro-3-hydroxy-, 2-isobutoxyethyl ester, di-Et phosphate 92369-95-4,
 Crotonic acid, 2-chloro-3-hydroxy-, 2-(2-ethoxyethoxy)ethyl ester, di-Et
 phosphate 92378-70-6, Crotonic acid, 2-chloro-3-hydroxy-, 2-phenoxyethyl
 ester, di-Me phosphate 92861-60-4, Crotonic acid, 3-hydroxy-,
 2-(2-propoxyethoxy)ethyl ester, di-Et phosphate 93047-20-2, Crotonic
 acid, 2-chloro-3-hydroxy-, 2-phenoxyethyl ester di-Et phosphate
 93153-57-2, Crotonic acid, 3-hydroxy-, 2-(2-ethoxyethoxy)ethyl ester,
 diiso-Pr phosphate 93161-26-3, Crotonic acid, 3-hydroxy-,
 2-(2-ethoxyethoxy)ethyl ester, diallyl phosphate 93350-47-1, Crotonic
 acid, 3-hydroxy-, 2-(ethylthio)ethyl ester, di-Et phosphate 93352-14-8,
 Crotonic acid, 2-chloro-3-hydroxy-, 2-methoxy-1-(methoxymethyl)ethyl
 ester, di-Et phosphate 93428-51-4, Crotonic acid, 3-hydroxy-,
 2-methoxy-1-(methoxymethyl)ethyl ester, di-Et phosphate 93648-40-9,
 Crotonic acid, 2-chloro-3-hydroxy-, 2-(benzyloxy)ethyl ester, di-Me
 phosphate 94028-01-0, Crotonic acid, 2-chloro-3-hydroxy-,
 2-(2-propoxyethoxy)ethyl ester, di-Et phosphate 96364-28-2, Crotonic
 acid, 3-hydroxy-, 2-(2-ethoxyethoxy)ethyl ester, di-Bu phosphate
 106504-13-6, Crotonic acid, 3-hydroxy-, ester with 2,5,8,11,14,17,20,23,26-
 nonaoxaoctacosan-28-ol, di-Et phosphate 106505-18-4, Crotonic acid,
 2-chloro-3-hydroxy-, ester with 2,5,8,11,14,17,20,23,26-nonaaoctacosan-
 28-ol, di-Et phosphate 111164-70-6, Crotonic acid, 2-chloro-3-hydroxy-,
 2-methoxy-1-(methoxymethyl)ethyl ester, di-Me phosphate
 (prepn. of)

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